"Transportation Security: Protecting Our Critical Land, Sea, Air and Pipeline Systems"

Ed Badolato, President, CMS, Inc.

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Terrorist Attacks on US Critical Infrastructure
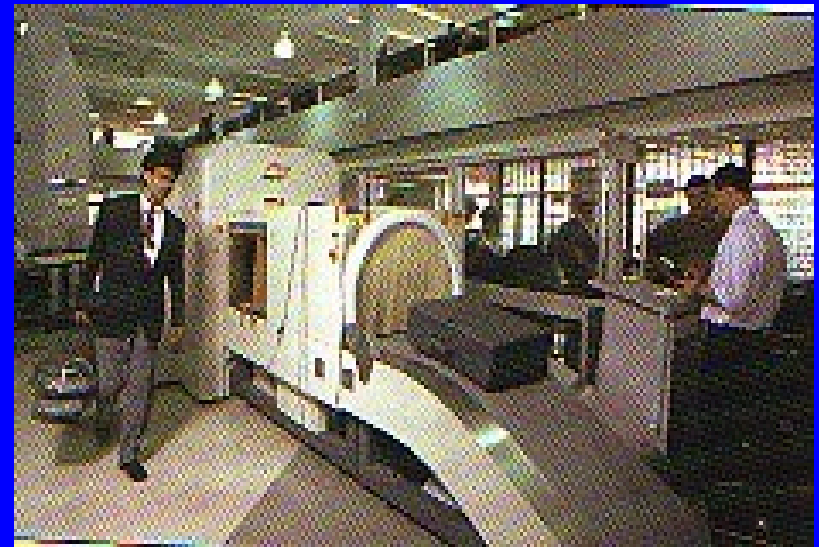
- *Transportation*
- **Energy**
- **Telecommunications**
- **Financial**
- **Water**
- **Medical**
- **Government Emergency & Public Safety**

The US Transportation System

- **Air**
- **Truck/Rail**
- **Maritime**
- **Intermodal**
- **Pipelines**

AIR

# TRUCK/RAIL

MARITIME

PIPELINES

Key Players in Transportation Security

- US Coast Guard
- US Customs
- FAA
- Railroad Police
- DOT/TSA
- INS
- RSPA
- Agriculture
- FBI/CIA
- DOD

- Shippers
- Airports
- Port Authorities
- Carriers
- Insurers
- Freight Forwarders
- Warehouse operators
- Loss Surveyors
- Security Companies
- Logistics managers

US Coast Guard: Patrols/Protects Ports & Waterways
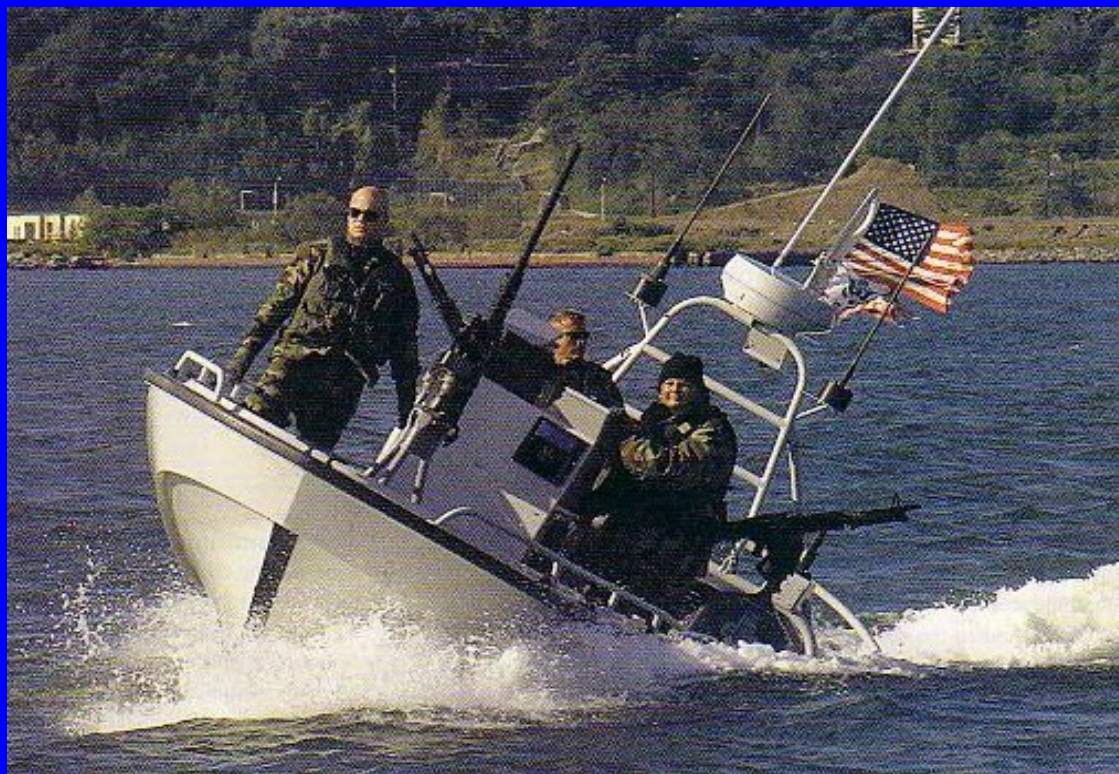
US Customs Service:
Spot-checks International Cargo

DOD: Protects US Military Presence at Home and Overseas

How the New Breed of Terrorists Have "Upped the Ante"

- **Shadowy Ad Hoc Groups**
- **Sleepers and Fifth Column inside the US**
- **Use of the Internet**
  - **Sophisticated Encrypted Communications**
  - **Financial Support**
- **Using Legitimate Front Businesses and Organizations**

The Threats to US Transportation

- Terrorism
- Drugs
- Theft
- Money laundering
- Smuggling
- Diversion
- Aliens

International Terrorism

- Regional Groups
  - HAMAS
  - Hezbollah
- Global
  - Al Qaeda

DOMESTIC TERRORIST GROUPS

- Left wing Groups
- Radical Islamic Extremists
- Puerto Rican Separatists,
- White Supremacy
- Right Wing Extremist Groups
- Radical Environmentalists

- Anti-Nuclear Groups
- Animal Rights
- Anti-Abortion
- Violent Labor Strike Groups
- Radical Jewish Movement
- Religious Cults
- Cyberterrorists

Why the Increase in Potential Terrorist Threats to Transportation?

- Years of Security as an overhead cost

- Supports international terrorist operations

- Low risk, high payoff targets
  - Catastrophic casualties
  - Economic destabilization

A Changing Menu of Terrorist Scenarios

- Air operations—pax & cargo
- Chem/Bio/Nuke shipments
- Urban tunnels, subways and bridges
- Use of seagoing tankers as weapons
- WMD--Maritime shipping containers

Aviation Security

STAND OFF ATTACKS

    - .50 cal sniper weapons

    - Stinger

Key Rail Choke Points

Chemical & HAZMAT Truck/Rail Tanker Facilities

- **Sabotage**
- **Physical attack**
- **Precursor chemicals**
- **Tampering with valves, fail safe systems, etc.**

BARGES & BRIDGES

PIPELINE SECURITY

- SCADA
- Over flights—armed, unarmed, unmanned
- Ground patrols
- Pumping station protection
- Design and construction

Power Plant Interconnectivity

Responding to the Transportation Threat Scenarios:

"*Changing the way we do business*"

- Point of Origin Controls
- Concentric controls at transfer points
- Common standards at key megaports
- Information sharing
- Security certification
- Automated record keeping

Responding to the Container Threat Scenarios:
Changing the way we use technology

Responding to the Threat Scenarios: *Introducing System Wide Technology*

- Secure loading docks
- Increased surveillance systems
- Vehicle/cargo scanners
- Improved background checks, access controls, and biometrics
- Cheaper, smaller tracking transponders, e-tags, and container alarms
- IT Systems to provide advanced notice of shipments
- Watch lists

What Lies Ahead for Transportation Security?

- Terrorists will continue to use/attack transportation systems

- International Syndicates will greatly expand their illegal transportation activities

- Law enforcement will be hard pressed to disrupt international syndicates & terrorists simultaneously

- Overhauling and auditing of transportation security systems will be an important and necessary growth area